

Title (en)  
BICYCLIC AMINOCATALYSTS

Publication  
**EP 0282069 A3 19891123 (DE)**

Application  
**EP 88103856 A 19880311**

Priority  
DE 3707911 A 19870312

Abstract (en)  
[origin: US4921879A] New catalysts are made available for the production of polyurethane and polyepoxide resins being derivatives of 2-azabicyclo[2.2.2]hept-5-enes and 2-azabicyclo[2.2.1]heptanes substituted in 2- and optionally in 3-position. Also provided is a process for preparing same by reacting cyclopentadiene with salts of strong acids of ammonia or of primary amines and aldehydes and, optionally, by subsequent catalytic hydrogenation of the reaction product.

IPC 1-7  
**C08G 18/20**; **C08G 59/68**; **C07D 471/08**

IPC 8 full level  
**C07D 209/52** (2006.01); **C07D 471/08** (2006.01); **C08G 18/18** (2006.01); **C08G 18/20** (2006.01); **C08G 59/40** (2006.01); **C08G 59/68** (2006.01); **B01J 31/02** (2006.01); **C08G 101/00** (2006.01)

CPC (source: EP US)  
**C07D 209/52** (2013.01 - EP US); **C08G 18/2054** (2013.01 - EP US); **C08G 59/686** (2013.01 - EP US)

Citation (search report)

- [A] US 3036021 A 19620522 - VICTOR TRESCHER, et al
- [A] US 3539660 A 19701110 - HICKS DARRELL D, et al
- [XD] THE JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Band 107, 20. März 1985, Seiten 1768-1769, American Chemical Society, Washington, US; S.D. LARSEN et al.: "Aza Diels-Alder reactions in aqueous solution: cyclocondensation of dienes with simple iminium salts generated under Mannich conditions"
- [XP] THE JOURNAL OF ORGANIC CHEMISTRY, Band 52, 25. Dezember 1987, Seiten 5746-5749, American Chemical Society, Washington, US; P.A. GRIECO et al.: "Immonium ion based synthetic methodology: A novel method for the N-methylation of dipeptides and amino acid derivatives via retro aza Diels-Alder reactions"
- [A] THE JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Band 100, 1. März 1978, Seiten 1503-1505, American Chemical Society, Washington, US; F.M. MENDER et al.: "Exo-endo vs. equatorial-axial equilibria. Assessment of steric crowding in the endo cavity"
- [AD] TETRAHEDRON, Band 21, Nr. 10, Oktober 1965, Seiten 2725-2734, Pergamon Press, Ltd, Oxford, GB; P.G. GASSMAN et al.: "The synthesis of 2-azabicyclo[2.2.1]heptanes by the Hofmann-Löffler-Freytag reaction"

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 4921879 A 19900501**; AT E90368 T1 19930615; AU 1302288 A 19880915; AU 616652 B2 19911107; CA 1333605 C 19941220; DD 280755 A5 19900718; DE 3707911 C1 19880331; DE 3881547 D1 19930715; DK 135188 A 19880913; DK 135188 D0 19880311; EP 0282069 A2 19880914; EP 0282069 A3 19891123; EP 0282069 B1 19930609; ES 2058158 T3 19941101; FI 880912 A0 19880226; FI 880912 A 19880913; JP H0714914 B2 19950222; JP S63243071 A 19881007; NO 177010 B 19950327; NO 177010 C 19950705; NO 880733 D0 19880219; NO 880733 L 19880913; SU 1598868 A3 19901007; SU 1715206 A3 19920223; UA 8016 A1 19951226

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**US 37846389 A 19890713**; AT 88103856 T 19880311; AU 1302288 A 19880311; CA 561026 A 19880310; DD 31352488 A 19880309; DE 3707911 A 19870312; DE 3881547 T 19880311; DK 135188 A 19880311; EP 88103856 A 19880311; ES 88103856 T 19880311; FI 880912 A 19880226; JP 4992588 A 19880304; NO 880733 A 19880219; SU 4355337 A 19880311; SU 4355338 A 19880311; UA 4355338 A 19880311